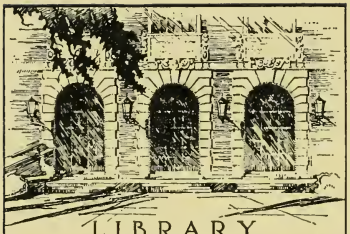

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# BLICATIONS
# THE FACULTY

AND TITLES OF DOCTORAL DISSERTATIONS

13)

DEC 31 1964

**COVER:**

PIERCED AND BESET, by Lee Chesney.
Original color intaglio print, 17″ x 24″.

The work of Lee Chesney, M.F.A., professor of art in charge of the printmaking program at the University of Illinois, currently is included in the American Federation of Arts traveling shows and in the Museum of Modern Art's "Fifty Years of American Art" which toured Europe. He also is represented in curator's selections circulating in the Scandinavian countries, Japan, and Australia. His work was exhibited in the fourth International Biennale, Bordighera, Italy, and the first International Print Biennale, Tokyo. An oil painting by Mr. Chesney was awarded first prize in the Centennial Exhibition of the American Association of Land Grant Colleges and State Universities.

Mr. Chesney's work is in the collections of numerous museums in America and abroad, including the Museum of Modern Art, Tokyo; the Tate Gallery and Victoria and Albert Museum, London; National Gallery of Art, Stockholm; Bibliothèque Nationale, Paris; Museum of Modern Art and Brooklyn Museum, New York City; Library of Congress, Washington, D.C.; Philadelphia Museum; and Chicago Art Institute.

A Fulbright Research Fellow to Japan in 1956-1957, Mr. Chesney also has been visiting artist at the University of Colorado, Michigan State University, and the University of Washington.

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UNIVERSITY OF ILLINOIS annual list

January 1 through December 31, 1963

# BLICATIONS | AND TITLES OF DOCTORAL DISSERTATIONS
# THE FACULTY |

by

ITY RESEARCH BOARD, GRADUATE COLLEGE, UNIVERSITY OF ILLINOIS, URBANA & CHICAGO

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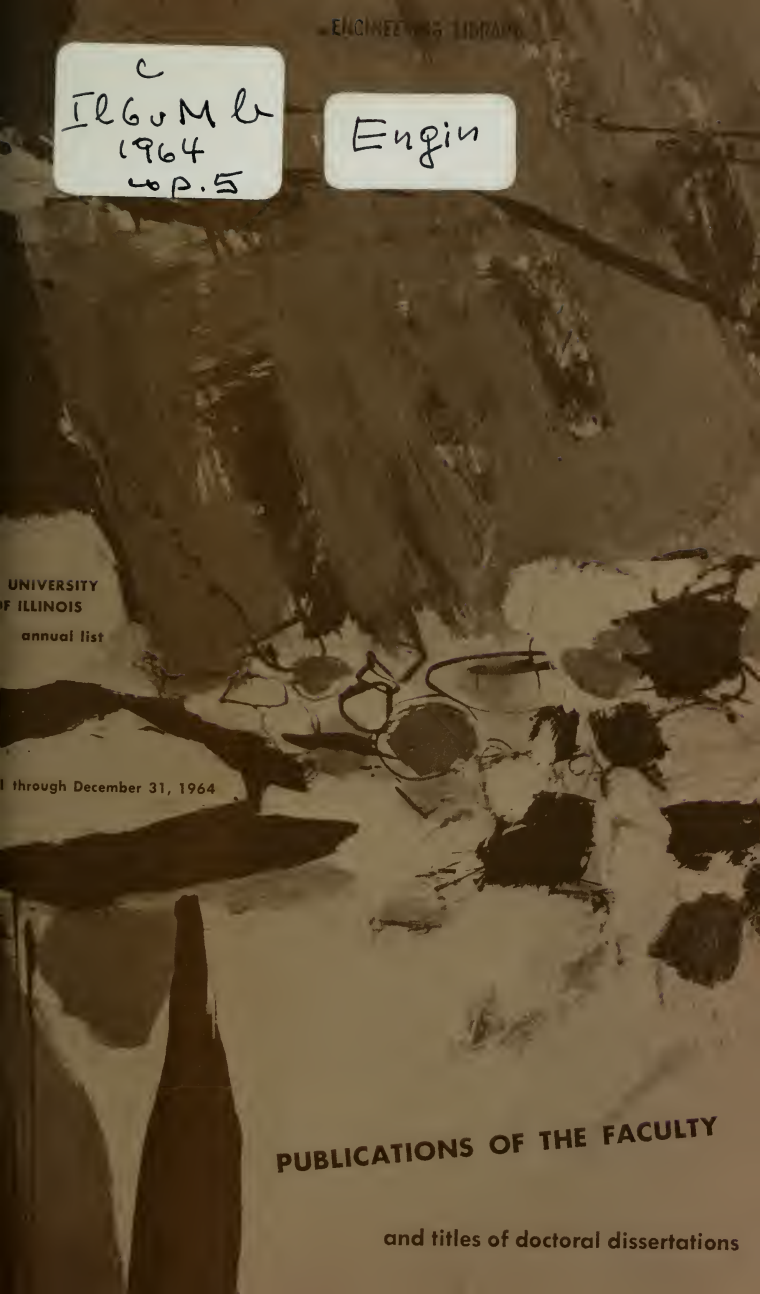

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through December 31, 1964

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and titles of doctoral dissertations

**COVER:**

ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18″ x 24″

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, and Japan. He has held fourteen one-man shows in New York City, Chicago, Boston, and Philadelphia.

Among the major awards he has received are the $2,000 First Altman Landscape Prize at the National Academy of Design in 1957 and again in 1959; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957 and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum, and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.

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Gieseking, Darrell L. (J. B. Cruz, Jr., Adviser), Optimal control of co-operative systems — the rendezvous problem.

Hodges, Ralph R., Jr. (G. Deschamps, Adviser), Gyro-interaction rocket experiments in the lower ionosphere.

Hogan, James J. (C. D. Hendricks, Adviser), Parameters influencing the charge-to-mass ratio of electrically sprayed liquid particles.

Kabrisky, Matthew (J. E. Robertson, Adviser), A proposed model for visual information processing in the human brain.

Kunz, William E. (M. D. Sirkis, Adviser), A 35 gigacycle linear bunching accelerator for electrons.

Lehmann, John R. (G. E. Anner, Adviser), A mathematical and experimental analysis of a van der Pol type oscillator containing an additional bi-state nonlinearity.

Likuski, Robert K. (P. D. Coleman, Adviser), Free and driven modes in anisotropic plasma guides and resonators.

Macleod, John M. (G. W. Swenson, Jr., Adviser), A 610.5 Mc radio survey of the sky between declinations + 40° and + 44°.

Mathur, Naresh C. (K. C. Yu, Adviser), Multiple scattering of electromagnetic waves by random scatterers of finite size.

McClure, John P. (G. W. Swenson, Jr., Adviser), Beacon satellite studies of small scale ionospheric inhomogeneities.

Morshed, Hassan (G. Deschamps, Adviser), Dispersive properties of a periodic slot array at the interface between two dielectrics.

Na, Hwa-Sung H. (H. Von Foerster, Adviser), On structural analysis of many-valued logic.

Pace, James R. (R. Mittra, Adviser), The generalized scattering matrix analysis of waveguide discontinuity problems.

Ponzo, Peter J. (N. Wax, Adviser), Nonlinear oscillations in a second order system.

Rain, Don W. (S. Seshu, Adviser), A modular realization of symmetric sequential machines.

Schneider, John M. (C. D. Hendricks, Jr., Adviser), The stability of electrified liquid surfaces.

Schubert, Harry A. (G. Deschamps, Adviser), Plane wave diffraction by thick dielectric gratings, and zone phase plates.

Slottow, Hiram G. (A. T. Nordsiek, Adviser), Crossed field charged particle delay lines.

Sobral, Manoel, Jr. (J. B. Cruz, Jr., Adviser), Linear control laws for singular linear systems.

Stein, Herbert J. (J. B. Cruz, Jr., Adviser), Suppression of noise effects in pulse width modulated systems.

Ujhelyi, Gabor K. (W. J. Poppelbaum, Adviser), Novel electro-optical light modulators.

Wang, Carl C. (M. D. Sirkis, Adviser), Electron beam parametric converter.

Win, Soe M. (J. B. Cruz, Jr., Adviser), Time optimal control of non-linear sampled-data systems.

## ENGINEERING ADMINISTRATION

EVERITT, WILLIAM L., Professor of Electrical Engineering and Dean of College of Engineering

**Books Edited**

Electrical engineering series. Prentice-Hall, Inc., Englewood Cliffs, N.J. Books as follows:

Electronic fundamentals and applications (3rd ed.), by J. D. Ryder, 693 pp.

Network theory: an introduction to reciprocal and nonreciprocal circuits, by H. J. Carlin and A. B. Giordano, 477 pp.

Modern digital computers, by G. A. Maley and E. J. Skiko, 216 pp.

Network analysis (2nd ed.), by M. E. Van Valkenburg, 492 pp.

Semiconductor controlled rectifiers (principles and applications of p-n-p-n devices), by F. E. Gentry, F. W. Gutzwiller, Nick Holonyak, Jr., E. E. Von Zastrow, 383 pp.

Capacitors, magnetic circuits, and transformers, by L. W. Matsch, 350 pp.

Pulse circuits: switching and shaping, by D. S. Babb, 379 pp.

Modulation Systems and Noise, by J. J. Downing, 214 pp.

Digital communications with space applications, by S. W. Golomb, L. D. Baumert, M. F. Easterling, J. J. Stiffler, A. J. Viterbi, 210 pp.

**Articles**

Engineering for education. *IEEE Student J., 2,* 1:2-7.

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Introduction — a symposium on continuing education. *IEEE Spectrum, 1,* 6:112-14.

ROBERTS, HOWARD C., Research Professor, Engineering Experiment Station

**Articles**

Circuits and relays for equipment reliability. *Proc. 12th Ann. Conf. Electromag. Relays, 12*:19-1 to 19-10.

## ENGLISH

ALTENBERND, A. LYNN, Associate Professor

**Reviews**

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BARKER, ARTHUR E., Professor

**Articles**

An apology for the study of Renaissance poetry. In *Literary views: critical and historical essays,* ed. by C. Camden. Univ. Chicago Press, Chicago, pp. 15-43.

BERRY, LLOYD E., Associate Professor

**Books**

The English works of Giles Fletcher, the elder. Univ. Wis. Press, Madison, 561 pp.

A bibliography of studies in metaphysical poetry, 1939-1960. *Ibid.,* 112 pp.

BRANDABUR, EDWARD J., Assistant Professor

**Articles**

Stephen's aesthetic in a portrait of the artist. In *The Celtic cross,* ed. by Brown, Loftus, and Roscelli. Purdue Univ. Studies, West Lafayette, pp. 11-21.

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A first draft of Finnegans Wake, by David Hayman. *JEGP, 63,* 4: 828-29.

CAMPBELL, JACKSON J., Professor

**Articles**

Prayers from MS. Arundel 155. *Angelia, 81,* 2:82-117.

CHAPDU, ROBERT E., Instructor

**Bulletins and Technical Reports**

A checklist of paperbound books for business communication. *ABWA Bull., 28,* 2: 16-28.

CURLEY, DANIEL, Professor

**Books**

A stone man, yes. Viking Press, Inc., N.Y., 215 pp.

**Articles**

Treasure in *The grave. Mod. Fiction Studies, 9:* 377.

**Short Stories**

Love in the winter. *Colorado Qt.,* 7:251.

Father to the man. *Epoch,* 8:194.

A dark night in the woods. *U.S. Catholic, 30,* 7:44.

A very small grove. In *Best short stories of 1964,* ed. by Martha Foley. Houghton Mifflin, Boston, pp. 85-93.

**Poems**

The old man knows he lives. *Minn. Rev.,* 4: 443.

The man in orbit. *America,* 111:559.

**Reviews**

The March-Man, by Keith Botsford. *New Leader,* 47, 16:21.

The Italian girl, by Iris Murdoch. *Ibid.,* 23:23.

The valley of bones, by Anthony Powell. *Ibid.,* 24:22.

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DAVIDSON, EDWARD H., Professor

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FLANAGAN, JOHN T., Professor

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GABEL, JOHN B., Assistant Professor

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GIESLEMAN, ROBERT D., Instructor

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GOLDING, SANFORD, Assistant Professor

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HAIG, ROBERT L., Associate Professor

**Reviews**

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HARKNESS, BRUCE, Professor and Associate Dean of Liberal Arts and Sciences

**Articles**

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HERRICK, MARVIN T., Professor

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HOOK, J. N., Professor

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HUSSEY, MARY A., Instructor

**Books**

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KAUFMANN, U. MILO, Assistant Professor

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LOFTUS, RICHARD J., Assistant Professor

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MAGUIRE, JOHN T., Associate Professor

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MOAK, FRANK B., Associate Professor

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NIMS, JOHN F., Professor

**Articles**

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ORNSTEIN, ROBERT, Professor

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PARKER, HERSHEL, Assistant Professor

**Articles**

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PAUL, SHERMAN, Professor

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The Chicago school of architecture, by Carl W. Condit. *Amer. Qt., 16*:507-08.

SCOTT, ARTHUR L., Associate Professor

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SIMON, JOHN, Assistant Professor

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SMALLEY, DONALD A., Professor

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TIBBETTS, ARNOLD M., Assistant Professor

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WEEKS, FRANCIS W., Professor

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WELSH, ROBERT F., Assistant Professor

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WILKIE, BRIAN, Assistant Professor

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The ragman's daughter and other stories, by Alan Sillitoe. *Ibid., 80*:20-21.

A god and his gifts, by I. Compton-Burnett. *Ibid.,* pp. 124-25.

The March-Man, by Keith Botsford. *Ibid.,* 456-457.

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WOOLLEY, MARY L., Assistant Professor

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Bennett, Fordyce J. (G. B. Evans, Adviser), The use of the Bible in the dramatic works of George Chapman, Thomas Dekker, John Marston, Cyril Tourneur, and John Webster.

Boyle, Thomas E. (E. H. Davidson, Adviser), Thomas Wolfe's myth of America.

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Coleman, Philip Y. (J. T. Flanagan, Adviser), Mark Twain's desperate naturalism.

Drawver, Pauline S. (M. Herrick, B. A. Milligan, Advisers), Milton's knowledge and use of Aristotle.

Friend, George L. (J. T. Flanagan, Adviser), Levels of maturity: The theme of striving in the novels of William Faulkner.

Gilmore, Thomas B., Jr. (R. W. Rogers, Adviser), The reaction to satire in England from 1693 to 1761.

Goldman, Lloyd N. (B. M. Milligan, Adviser), Attitudes toward the mistress in five Elizabethan sonnet sequences.

Gridley, Roy E. (D. Smalley, Adviser), Browning's monologuists: Self-definition as theme in *The Ring and the Book.*

Guffey, George R. (G. B. Evans, Adviser), Thomas Traherne's *Christian Ethicks:* A critical edition.

Haworth, Helen E. (J. Stillenger, Adviser), Keats and nature.

Heagarty, Mary A. (R. A. Gettmann, Adviser), Aesthetic distance in the techniques of the novel.

Johnson, Robert C. (A. G. Holaday, Adviser), Thomas Preston's *Cambises:* A critical edition.

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Knies, Earl A. (D. Smalley, Adviser), The art of Charlotte Brontë: A study of point of view in her fiction.

Levy, Edward R. (E. H. Davidson, Adviser), Henry James and the pragmatic assumption: The conditions of perception.

Martin, Richard T. (R. A. Gettmann, Adviser), A reappraisal of Samuel Taylor Coleridge's "Conversation Poems."

Pasko, Michael (B. Harkness, Adviser), Mark Pattison's course through the Oxford Movement.

Rackin, Donald (R. A. Gettmann, Adviser), The critical interpretations of *Alice in Wonderland:* A survey and suggested reading.

Schlaeger, Margaret C. (E. H. Davidson, Adviser), Jonathan Edwards' theory of perception.

## ENTOMOLOGY

CHADWICK, LEIGH E., Professor

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FRAENKEL, GOTTFRIED S., Professor

**Articles**

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GHENT, ARTHUR W., Assistant Professor

**Articles**

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*With A. Houser*

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*With Joan L. Larson*

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HORSFALL, WILLIAM R., Professor

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ROSS, HERBERT H., Professor

**Articles**

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SELANDER, RICHARD B., Associate Professor

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STERNBURG, JAMES G., Professor

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Campbell, John M. (R. B. Selander, Adviser), A revision of the genus *Lobopoda* (Coleoptera: Alleculidae) in North America and the West Indies.

Hewitt, Peter H. (C. W. Kearns, Adviser), The degradation of four N-methyl carbamates and the reactivation of cholinesterase in the house fly [*Musca domestica* (L.)].

Kouskolekas, Costas A. (G. C. Decker, Adviser), Biological studies on the potato leafhopper, *Empoasca fabae* (Harris), as an alfalfa pest.

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## EXCEPTIONAL CHILDREN, RESEARCH ON

BATEMAN, BARBARA, Research Assistant Professor

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*With S. A. Kirk*
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BEREITER, CARL, Associate Professor

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FARBER, BERNARD, Professor of Sociology

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Family: organization and interaction. Chandler Pub. Co., San Francisco, 536 pp.

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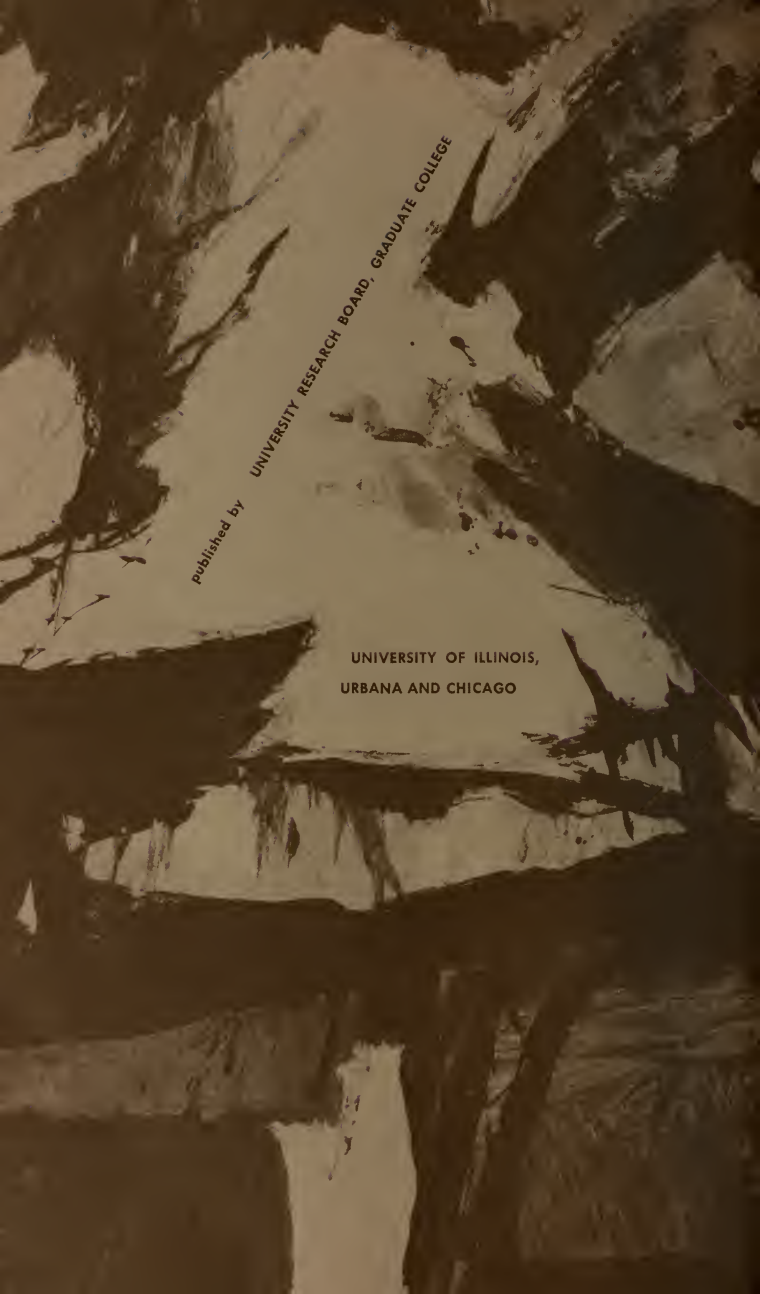
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ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18″ x 24″

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, and Japan. He has held fourteen one-man shows in New York City, Chicago, Boston, and Philadelphia.

Among the major awards he has received are the $2,000 First Altman Landscape Prize at the National Academy of Design in 1957 and again in 1959; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957 and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum, and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.

Cover design: R. PERLMAN

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## and titles of doctoral dissertations

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EVERITT, WILLIAM L., Dean, College of Engineering, Professor of Electrical Engineering

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# PUBLICATIONS OF THE FACULTY

and titles of doctoral dissertation

**COVER:**

ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18″ x 24″

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, and Japan. He has held fourteen one-man shows in New York City, Chicago, Boston, and Philadelphia.

Among the major awards he has received are the $2,000 First Altman Landscape Prize at the National Academy of Design in 1957 and again in 1959; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957 and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum, and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.

**Cover design: R. PERLMAN**

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BITZER, DONALD L., Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

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APPLEBEE, ROGER K., Lecturer in English, Associate Dean of Liberal Arts and Sciences, and Associate Dean of Students

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MILLET, STANTON, Dean of Students and Associate Professor of English

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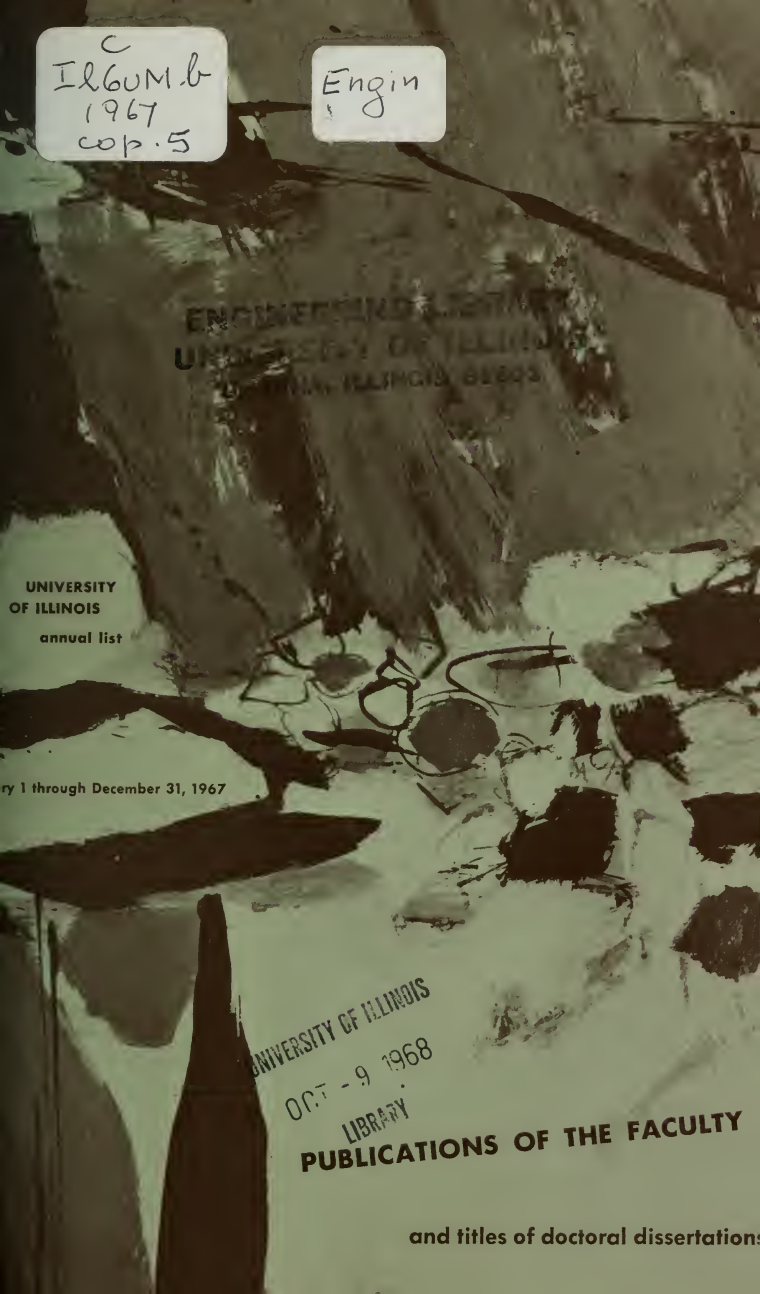

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# PUBLICATIONS OF THE FACULTY

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**COVER:**

ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18″ x 24″

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, Mexico, and Japan. He has held sixteen one-man shows in New York City, Chicago, Boston, and Philadelphia.

Among the major awards he has received are the $2000 First Altman Landscape Prize at the National Academy of Design in 1957, 1959, and again in 1966; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957, and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.

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*With K. W. Perry, A. R. Wyatt*

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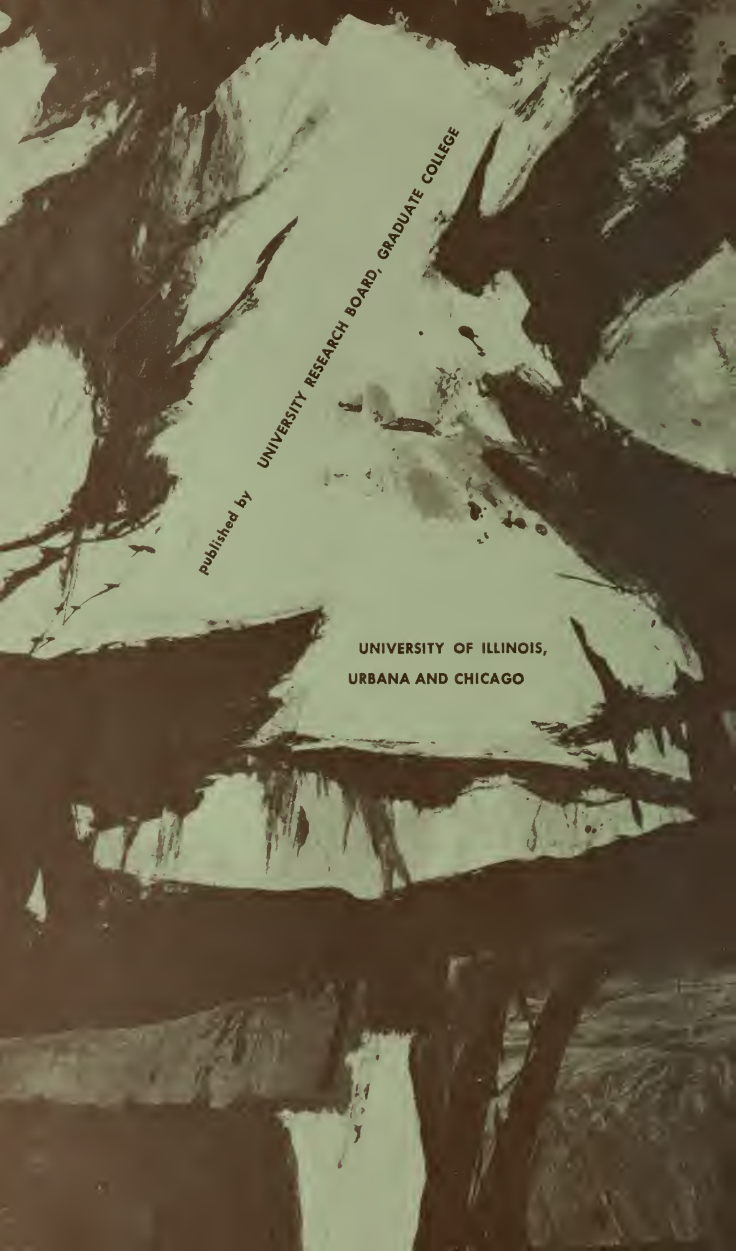
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